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Aprilaire 8465

Aprilaire 8465 Programmable Thermostat

Instruction Manual

1. INTRODUCTION

The Aprilaire 8465 Programmable Thermostat provides precise control over your home's heating and cooling system. Designed for ease of use, this thermostat allows you to create personalized temperature schedules, helping to maintain comfort and potentially reduce energy consumption. It features a clear, backlit display and intuitive controls for managing your indoor climate.



Image 1.1: The Aprilaire 8465 Thermostat installed on a wall.

This manual provides detailed instructions for the installation, setup, operation, and maintenance of your Aprilaire 8465 thermostat. Please read it thoroughly before proceeding with installation or operation.

2. SAFETY INFORMATION

- **Electrical Hazard:** Disconnect power to the heating and cooling system at the main fuse or circuit breaker panel before installing or servicing the thermostat. Failure to do so may result in electrical shock or equipment damage.
- **Professional Installation Recommended:** If you are unfamiliar with electrical wiring, it is recommended to have a qualified HVAC technician install this thermostat.
- **Proper Disposal:** Dispose of old batteries and the old thermostat according to local regulations. Do not incinerate.
- **Operating Temperature:** Ensure the thermostat is operated within its specified temperature range to prevent damage.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Aprilaire 8465 Programmable Thermostat
- Mounting Bracket
- Battery Door
- Installation Guide (this document)

Note: Two AA batteries are required for operation but **arenot included** in the package.

4. INSTALLATION

Follow these steps carefully to install your Aprilaire 8465 thermostat:

1. **Turn Off Power:** Locate the circuit breaker or fuse box that controls your heating and cooling system and turn off the power.
2. **Remove Old Thermostat:** Carefully remove the cover of your old thermostat. Take a picture of the wiring connections before disconnecting any wires. Label each wire with the terminal designation (e.g., R, C, Y, W, G).
3. **Mount New Thermostat Base:** Detach the mounting bracket from the new Aprilaire 8465 thermostat. Position the mounting bracket on the wall where the old thermostat was located. Use the provided screws to secure it, ensuring it is level.
4. **Connect Wires:** Connect the labeled wires from your HVAC system to the corresponding terminals on the new mounting bracket. Refer to the wiring diagram provided with your specific HVAC system for accurate connections. Ensure all connections are secure.
5. **Install Batteries:** Insert two new AA alkaline batteries into the battery compartment located behind the front battery door. Ensure correct polarity.
6. **Attach Thermostat to Base:** Carefully align the thermostat body with the mounting bracket and push it firmly until it snaps into place.
7. **Restore Power:** Turn the power back on at the circuit breaker or fuse box.

5. SETUP AND PROGRAMMING

After installation, the thermostat will power on. You will need to configure initial settings and program your desired schedule.

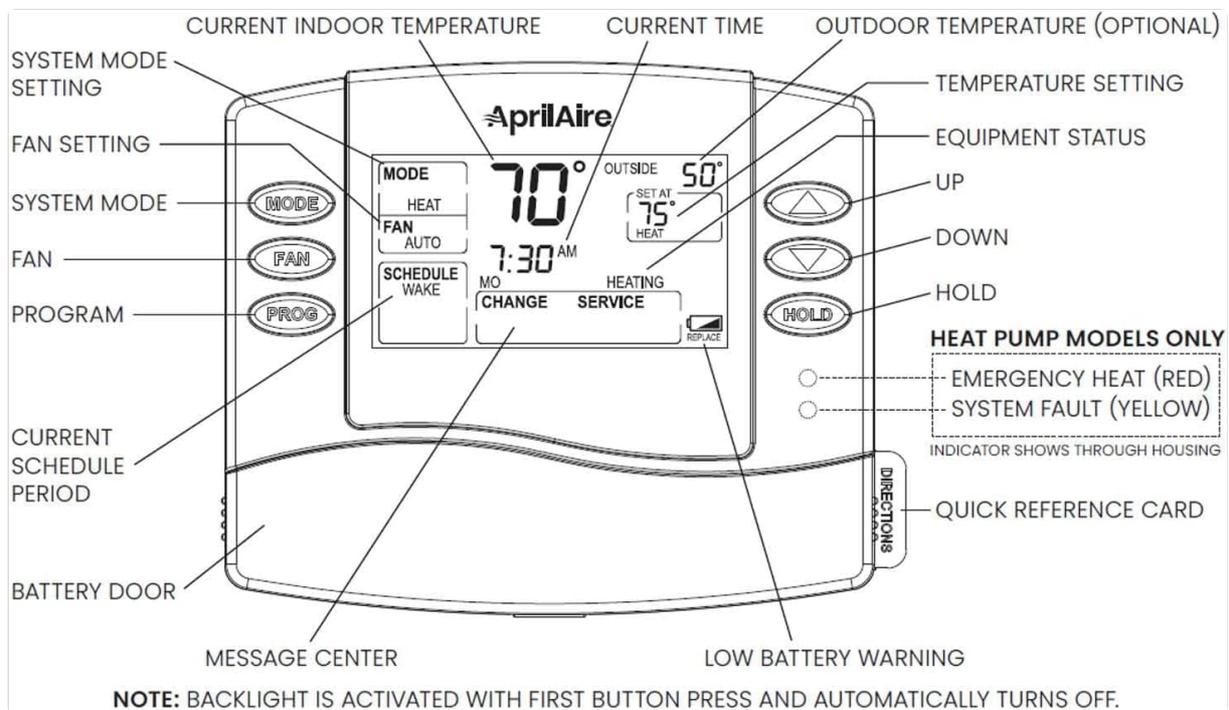


Image 5.1: Aprilaire 8465 Thermostat Display and Controls Overview.

5.1 Initial Configuration

1. **Set Date and Time:** Follow the on-screen prompts to set the current day of the week, time, and year. Use the **UP** and **DOWN** buttons to adjust values and the **MODE** or **PROG** button to confirm and move to the next setting.
2. **System Type:** The thermostat may prompt you to confirm your HVAC system type (e.g., Heat Pump, Conventional). Select the appropriate option.

5.2 Programming Your Schedule

The Aprilaire 8465 offers 5/2 day or 5/1/1 day programming. This allows you to set different schedules for weekdays (5 days) and weekends (2 days), or weekdays (5 days), Saturday (1 day), and Sunday (1 day).

1. **Enter Program Mode:** Press the **PROG** button. The display will show the current program period (e.g., WAKE) and the day(s) being programmed.
2. **Select Program Period:** Use the **MODE** button to cycle through the four daily program periods: WAKE, LEAVE, RETURN, SLEEP.
3. **Adjust Time and Temperature:** For each program period, use the **UP** and **DOWN** buttons to set the desired start time and temperature for both heating and cooling.
4. **Advance to Next Day/Period:** After setting a period, press **PROG** again to move to the next program period or day.
5. **Exit Program Mode:** Once all desired periods and days are programmed, press the **RUN** button (or wait for the thermostat to automatically exit program mode after a period of inactivity).

Tip: To switch between 5/2 and 5/1/1 day programming, consult the advanced settings menu, typically accessed by holding down a combination of buttons (refer to the full user manual for specific button combinations).

6. OPERATING INSTRUCTIONS

Understanding the basic operation of your thermostat ensures optimal comfort and efficiency.

6.1 System Mode Selection

Press the **MODE** button to cycle through the available system modes:

- **HEAT:** The system will only heat your home to the set temperature.
- **COOL:** The system will only cool your home to the set temperature.
- **AUTO:** The thermostat automatically switches between heating and cooling to maintain the set temperature range.
- **OFF:** The heating and cooling system is turned off. The fan can still be operated manually.

6.2 Fan Control

Press the **FAN** button to cycle through fan settings:

- **AUTO:** The fan runs only when the heating or cooling system is actively operating.
- **ON:** The fan runs continuously, regardless of whether the heating or cooling system is active.

6.3 Temporary Temperature Adjustment (HOLD)

To temporarily override the programmed schedule:

1. Use the **UP** or **DOWN** buttons to adjust the temperature. The new temperature will be held until the next programmed period begins.
2. To cancel the temporary hold and resume the schedule, press the **RUN** button.

To permanently hold a temperature, press the **HOLD** button after adjusting the temperature. The thermostat will maintain this temperature until the **HOLD** button is pressed again to release it, or the **RUN** button is pressed.

7. MAINTENANCE

Regular maintenance ensures your thermostat operates efficiently and accurately.

7.1 Battery Replacement

The thermostat uses two AA alkaline batteries for backup power and display operation. A low battery warning will appear on the display when replacement is needed.

1. Open the front battery door, typically located on the right side of the thermostat.
2. Remove the old batteries.
3. Insert two new AA alkaline batteries, ensuring correct polarity (+/-).
4. Close the battery door securely.

Note: Replacing batteries typically does not erase your programmed schedule, but it is good practice to verify settings afterward.

7.2 Cleaning

Clean the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the finish or internal components.

7.3 Service Indicators

The Aprilaire 8465 thermostat includes indicators for various HVAC system components:

- **Air Filter:** An indicator will appear when it's time to check or replace your air filter.

- **Humidifier/Dehumidifier:** Indicators may signal maintenance for connected Aprilaire humidifiers or dehumidifiers.
- **HVAC Service:** A general service indicator may appear to suggest a professional HVAC system check.

Consult your HVAC system's manual or a qualified technician for specific maintenance procedures related to these indicators.

8. TROUBLESHOOTING

If you encounter issues with your Aprilaire 8465 thermostat, try the following solutions:

Problem	Possible Cause	Solution
Thermostat has no power/blank display	Dead batteries; Power off at circuit breaker; Loose wiring	Replace batteries; Check circuit breaker and turn on power; Verify wiring connections are secure.
System not heating/cooling	Incorrect system mode; Temperature setting too high/low; HVAC system issue	Ensure thermostat is in HEAT or COOL mode; Adjust set temperature; Check HVAC unit for power or error codes; Contact HVAC technician.
Programmed schedule not running	Thermostat in HOLD mode; Incorrect time/day setting	Press RUN to exit HOLD mode; Verify current time and day are set correctly.
Inaccurate temperature reading	Thermostat exposed to direct sunlight or drafts; Sensor obstruction	Relocate thermostat if possible; Ensure no objects block airflow to the sensor.

If problems persist after attempting these solutions, contact Aprilaire customer support or a qualified HVAC technician.

9. SPECIFICATIONS

Feature	Specification
Brand	Aprilaire
Model Name	AprilAire 8465
Controller Type	Touch (Button Control)
Special Feature	Programmable
Color	White
Specific Uses	HVAC Systems with Humidifiers, Dehumidifiers, and Air Filters
Temperature Control Type	Programmable
Connectivity Technology	Wired
Power Source	Wired (HVAC system), Battery Powered (2x AA for backup/display)

Feature	Specification
Material	Plastic, Glass/Plastic Composite, Rubberized Plastic
Shape	Rectangular
Display Type	LCD
Finish Type	Matte
Screen Size	2.12 Inches
Mounting Type	Wall Mount
Backlight	Yes (Auto-activated with first button press)
Item Weight	6.4 ounces
Product Dimensions	5.25 x 4.5 x 1 inches
UPC	686720846502
Manufacturer	RESEARCH PRODUCTS CORPORATION
Part Number	8465

10. WARRANTY INFORMATION

Aprilaire products typically come with a limited warranty covering defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase.

For detailed warranty information, including coverage period and how to make a claim, please visit the official Aprilaire website or contact their customer support directly.

11. SUPPORT

For further assistance, technical support, or to inquire about replacement parts, please utilize the following resources:

- **Aprilaire Official Website:** Visit www.aprilaire.com for product information, FAQs, and additional support documents.
- **Customer Service:** Refer to the Aprilaire website for current customer service contact numbers and hours of operation.